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Nota di contenuto	Parametric, Seismic & Static External Stability Analysis of Mechanically Stabilized Earth Retaining Wall -- Influence of Surcharge Strip Loads on the Behavior of Cantilever Sheet Pile Walls: A Numerical Study by ABAQUS -- A Study on Excavation Induced Surface Settlement Due to Construction of Underground Station Box -- Design of Slope Protection Works in the Third Reach of Vadakara – Mahi Canal -- Analysis of Geofoam Backfill Retaining Wall -- 3-Dimensional Finite Element Analysis of Shankumugham Beach Road Due to Rainfall-Induced Storm Surge -- Analysis and Design of Cantilever Retaining Wall with and without Pressure Relief Shelf -- A Critical Review on Static and Seismic Earth Pressure of Layered Soil on Retaining Wall -- Tensile Force Distribution of Geogrid Reinforced BBMSE Wall: Numerical Analysis and Model Study – Prediction by ANFIS -- Performance Analysis of Introjected Backfill Retaining Wall -- Influence of the Soil/Rock Conditions at Wall Toe on the Behavior of the Diaphragm Wall -- Earth

Pressure Reduction on Rigid Cantilever Retaining Wall Using Inclusions -- A Numerical Study on the Abutment-Backfill System Subjected to Lateral Loading -- Prediction of Geogrid-Reinforced Flexible Pavement\Performance using Numerical Analysis -- Effect of Construction Parameters on the Behaviour of Embankment Resting Over Soft Soil Improved with ESC.

Sommario/riassunto

This book comprises the select proceedings of the Indian Geotechnical Conference (IGC) 2022. The book focuses on recent developments in geotechnical engineering for a sustainable world. The book covers behavior of soils and soil-structure interaction, soil stabilization, ground improvement, and land reclamation, shallow and deep foundations, geotechnical, geological and geophysical investigation, rock engineering, tunneling, and underground structures, slope stability, landslides and liquefaction, earth retaining structures and deep excavations, geosynthetics engineering, geo-environmental engineering, sustainable geotechnics, and landfill design, geo-hydrology, dam and embankment engineering, earthquake geotechnical engineering, transportation geotechnics, forensic geotechnical engineering and retrofitting of geotechnical structures, offshore geotechnics, marine geology and subsea site investigation, computational, analytical and numerical modeling and reliability in geotechnical engineering. The book is useful to researchers and professionals alike.